

Angiosperms → vascular
Gymnosperms
Non-vascular

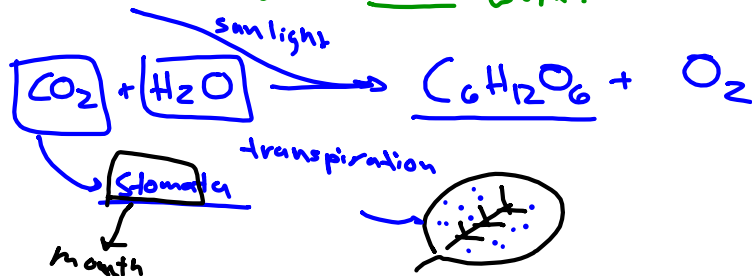
Bellringer

Gymnosperms →

What are some different types of plants?

bushes, fern, weeds, trees, flowering, aquatic, corn
carrots, shrubs, tomatoes, wheat

→ How do plants get energy? How does — work?



Bellringer

→ What are the "major" types of plants?
How are they different?

Nonvascular → mosses → bryophytes
ferns
horsetails

Vascular

- specialized tissues → xylem, phloem
- Gymnosperms → trees
- Angiosperms → flowering plants

Intro to Plants Review

Grade: 7th

Subject: Life Science

Date:

1 An example of a vascular plant is a fern.

True

False

2 The type of plant that are vascular, have seeds, and do not flower are _____.

-

3 _____ are flowering plants with seeds inside a fruit.

.

.

4 In what stage do plants make spores?

A gametophyte

B sporophyte

C photosynthesis

D vascular

5 Which of the following is NOT a characteristic shared by plants?

A cuticles

B cell walls

C seeds

D chlorophyll

6 Which of the following is NOT a similarity between green algae and plants?

- A the kind of chlorophyll they have
- B the presence of a cuticle
- C a two-stage life cycle
- D their cell walls

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→ What is the difference between

a non-vascular + a vascular plant?



does not

specialized tissues

→ What is the difference between an angiosperm and a gymnosperm?

→ Name a seedless plant. Fern
Horsetail

Non-vascular Plants Review

Grade: 7th

Subject: Life Science

Date:

Seedless Plants

Grade: «grade»

Subject: Life Science

Date: «date»

1 Rhizoid are like roots, they hold a plant in place.

.

∴

2 After 300 million years, the remains of seedless vascular plants formed coal.

True

False

.

.

.

∴

3 Some nonvascular plants can be dried and burned as fuel.

☒ True

☐ False

4 What is found in club mosses, but not in mosses?

☒ A vascular tissue

☐ B gametophytes

☐ C fronds

☐ D spores

5 What is an underground stem from which new leaves and roots grow?

- A rhizoid
- B fiddlehead
- C rhizome
- D gametophyte

6 What is another name for a fern leaf?

- A club moss
- B frond
- C rhizome
- D gametophyte

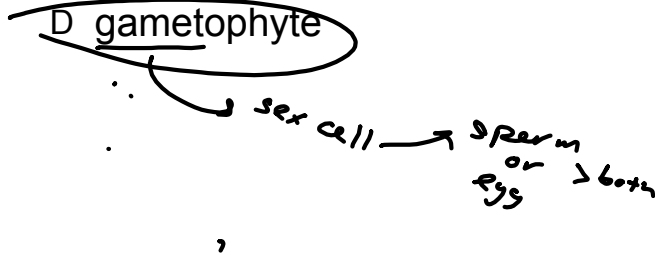
7 What is the tiny, heart-shaped part of a fern that produces both sperm and eggs?

A rhizome

B sporophyte

C silica

D gametophyte



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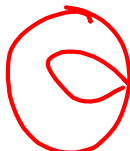
→ Name a seedless plant.

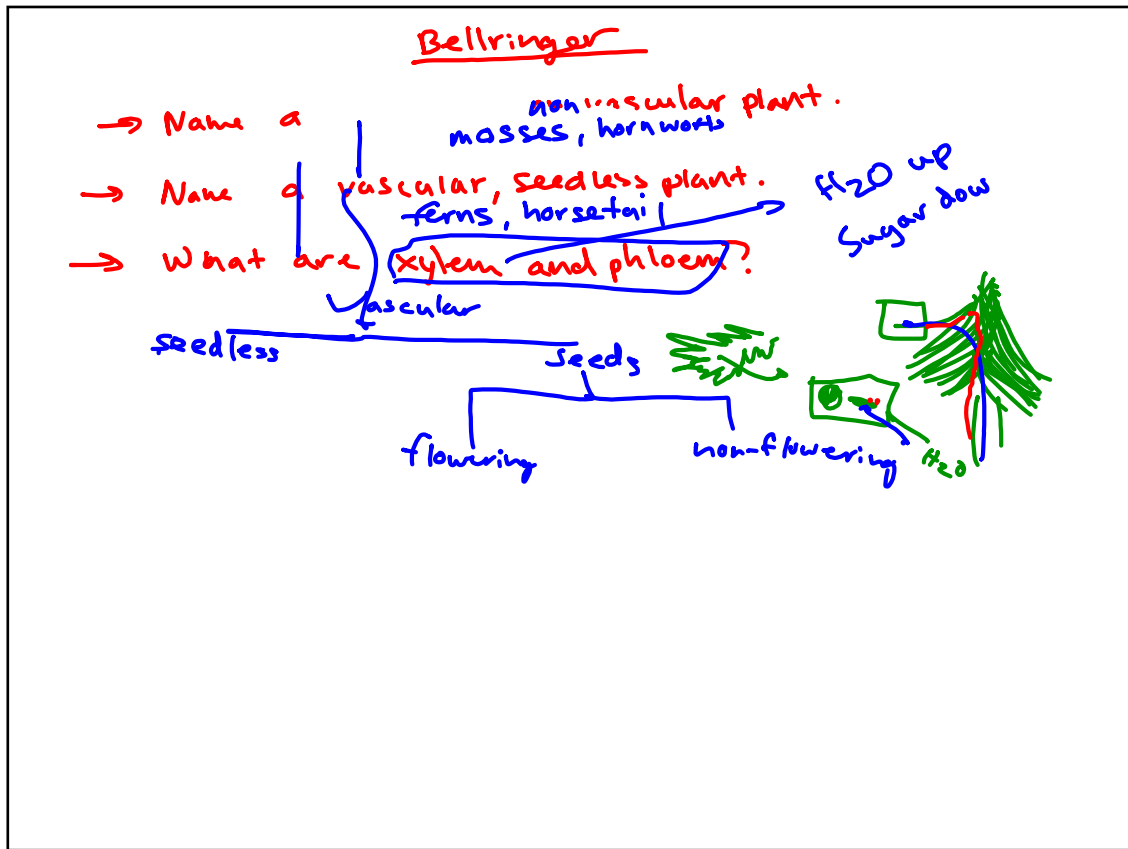


→ Describe the structure of a seed. (3 parts)

→ What is pollen?

→ What is the difference between a dicot and a monocot?





Seed Plant Review

Grade: 7th

Subject: Life Science

Date:

1 Gymnosperms and angiosperms both ...

A have flowers

☒ B have seeds

C lack seeds

D have fruit

2 Unlike seed plants, seedless plants...

A have gametophytes that are part of sporophytes

B are the most common plants on Earth

☒ C have gametophytes that live independently of the sporophytes

D do not need water to help the sperm reach the egg

3 In seedless plants, sperm can only reach the egg with the help of ...

A sporophytes

B water

C animals

D wind

.

-

4 Major food crops such as corn, wheat, rice are...

A nonvascular plants

B seedless plants

C gymnosperms

D angiosperms

.

.

5 What is the major difference between monocots and dicots?

- A the colors of flowers
- B the number of cotyledons
- C the size of the seeds
- D the scent of the flowers

Seed Plant Structure Review

Grade: 7th
Subject: Life Science
Date:

- 1 Vascular tissue that transports water and minerals through a plant is the _____.

xylem

.

,

- 2 A sepal is a modified leaf structure that protects a flower bud.

.

3 The female reproductive structure of a flower is the sepal.

pistil

True

False

.

4 The structure that contains one or more ovules is the

ovary.

.

5 The vascular tissue that transports food molecules is the phloem.

6 A petal is a broad, flat, leaflike part of a flower.

☒ True

☐ False

7 Roots...

- A are found in all parts of vascular plants
- ☒ B supply plants with water and minerals
- C produce pollen
- D make food for the plant

8 Water loss in a leaf is prevented by the

- A upper epidermis
 - ☒ B cuticle
 - C lower epidermis
 - D vascular tissue
- .

9 A stem that is soft, thin, and flexible is called a(n)...

- A woody stem
- B soft stem
- ☒ C herbaceous stem
- D growth ring

Plants Review

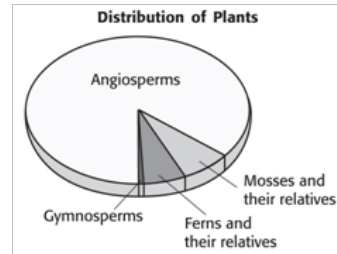
Grade: 7th

Subject: Life Science

Date:

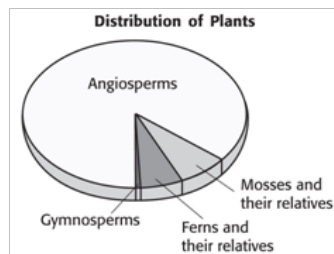
1 Which of the following types of plants are the least common?

- A ferns and their relatives
- B mosses and their relatives
- C angiosperms
- D gymnosperms



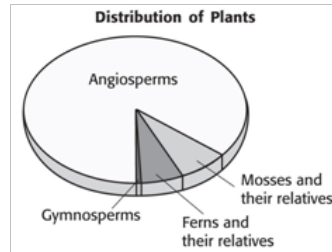
2 About what percentage of plants are angiosperms?

- A 1%
- B 10%
- C 20%
- D 80%



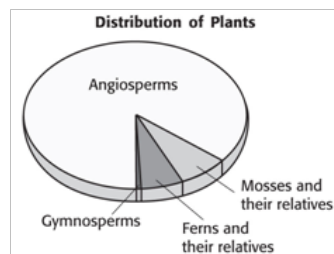
3 About what percentage of plants are mosses, ferns, and their relatives?

- A 1%
- B 10%
- C 20%
- D 80%



4 If there are about 265,000 species of plants, about how many of the species are mosses and relatives of mosses?

- A 2,650
- B 13,250
- C 26,500
- D 212,500



- 5 Sophie wants to plant a garden. Her garden is 25 m wide. She puts a row of plants every half meter. Every fifth row is a row of flowers. If the rest of the rows are vegetables, about how many rows of vegetables are in the garden?
- A 10 rows
 - B 25 rows
 - C 40 rows
 - D 50 rows

- 6 The area of the garden is 50 m^2 . If the garden is 12 m long, which of the following equations expresses the value of w , the width of the garden?
- A $w = 12 \times 50$
 - B $w = 50 \times 12$
 - C $w = 50 / 12$
 - D $w = 12 / 50$

7 There are 140 species of cycads. If 18% of gymnosperms are cycads, about how many gymnosperms are there total?

- A 25
- B 165
- C 775
- D 2520

8 A package of cabbage seeds that contains enough seeds for two rows costs \$2.00. A packet of carrot seeds that contains enough seeds for three rows costs \$2.25. If Katy wants to plant five rows of cabbage and seven rows of carrots, how much will the seeds cost?

- A \$12.75
- B \$12.00
- C \$8.50
- D \$6.00

